

What is claimed is:

- Sub 17
1. A ventless tire mold, comprising a plurality of mold segments nestingly interconnecting with each other at segment interfaces to form an annular mold, said segmented interfaces defining air passages from an interior of said annular mold.
  2. The ventless tire mold according to claim 1, wherein said segments comprise tire tread pitches.
  3. The ventless tire mold according to claim 2, wherein side surfaces of said segments are contoured for mating engagement of said segments.
  4. The ventless tire mold according to claim 2, wherein said annular mold is absent vents within said segments themselves.
  5. A method for making a ventless tire mold, comprising:
    - (a) developing three dimensional models of tire tread portions;
    - (b) installing sipes into the models;
    - (c) generating foundry castings from the siped models;
    - (d) preparing individual pitch profiles from said foundry castings; and
    - (e) assembling a mold by nestingly interconnecting a plurality of said prepared individual pitch profiles.
  6. The method for making a ventless tire mold according to claim 5, wherein said three dimensional models are cut by a multi-axis CNC machine.
  7. The method for making a ventless tire mold according to claim 6, wherein each said tire tread portion corresponds to a pitch.
  8. The method for making a ventless tire mold according to claim 7, wherein undercut ribs are formed in said tire tread portions for receiving said sipes.